

ISSN 2456-3110 Vol 4 · Issue 5 Sept-Oct 2019

Journal of Ayurveda and Integrated Medical Sciences

www.jaims.in

Indexed

An International Journal for Researches in Ayurveda and Allied Sciences





Journal of Ayurveda and Integrated Medical Sciences

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Ayurvedic mangement of Stroke - A Case Report

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ABSTRACT

Stroke is one of the leading causes of adult neurological disability across the globe. Its prevalence ranges from 40 to 270 per 100,000 population. The timely management of stroke is so crucial so as to limit the upcoming disability. Stroke is the condition of sudden onset of weakness, numbness, paralysis, slurred speech, aphasia, problems with vision and other manifestations of a sudden interruption of blood flow to a specific anatomical area of the brain. Ayurvedic management is having results in this regard as per reported studies. The present article deals with a diagnosed case of subacute non-haemorrhagic infarct involving the right fronto parieto temporal region and the ganglio capsular region, presented as left sided hemiplegia. Stroke is quite clearly defined along with its symptoms, prognosis and management in Ayurveda in the context of Pakshaghata as a Vatavyadhi, affecting Madhyama Rogamarga, in which Sira and Snayu are mainly affected. Rookshana followed by Sneha-Sweda, Sodhana, Vasthi and Nasya along with selected Samana drugs were administered to the patient. Assessments were done before and after treatment using Motor Assessment Scale for Stroke. Supine to sitting over side of bed, balanced sitting, sitting to standing and walking are the main domains which got maximum improvement as per the assessment. The recovery was promising and worth detailing.

Key words: Stroke, Pakshaghata, Motor Assessment Scale for Stroke, Vatavyadhi.

INTRODUCTION

Stroke is one of the major causes of adult disability. Sixty percent of stroke survivors have disabilities in upper limb and/or lower limb. One third of them need an assisted living environment or help for their activities of daily living.^[1] The prevalence of stroke in India ranges from 40 to 270 per 1,00,000 population.^[2] As per WHO data published in 2014. stroke mortality in India reached 9.94 % among the total deaths.^[3]

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Stroke is a condition resulting in the sudden onset of weakness, numbness, paralysis, slurred speech and other manifestations as a result of sudden interruption of blood flow or from a heamorrhage in a specific area of the brain resulting in neurological deficit. The ischemic area involved determines the type of focal deficit that is observed in the affected. The primary pathophysiology of stroke may be an underlying heart or blood vessel disease including hypertension, atherosclerosis leading to coronary artery disease, dyslipidaemia etc. The two major types of stroke are ischemic and haemorrhagic strokes.

Stroke can be clearly correlated with the condition of Pakshaghata in Ayurveda, which is a Kevalavata Vyadhi and results because of Vatakopa. It affects Siras (vascular structures) and Snayus (tendons and ligaments) of one half of the body and face.

Pakshagata^[4] have been explained in Ayurveda classics, which is a Vatavyadhi resulting in the weakness or dysfunction of half of the body, resulting from the aggravation of Vata, the cause being Dhatukshaya Avarana or i.e. any type of

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obstruction.^[5] It is a condition affecting *Madhyama Roga Marga*^[6] and *Yapya*^[7] type of disease affecting the *Siras* (vascular structures) and *Snayus* (tendon and ligaments) of half of the body as well as the face. Cardinal features are *Sandhi Bandha Vimokshana* (subluxation of joints or hypotonia), *Akarmana* (motor disability) and *Vichethana* (sensory disability).

In the aspect of management, three basic points are to be assessed, whether there is *Aama*, whether the condition is caused by *Avarana* and if there is any associated *Dosha* along with the main *Dosha* i.e. *Vata*. The *Ama* has to be addressed with *Pachana* or *Rookshana* initially, if present. The associative *Dosha* have also to be considered while fixing the protocol. If the *Pitta* is associating with *Vata*, we have to proceed with *Brimhna* protocol, while if *Kapha* is associated, *Langana* is the method adopted.

The Avarana have to be removed if present, so as to make the Vata function in a usual manner. In a condition where Kapha is causing Avarana to Vata, Kapha Shamana treatments are given initial priority followed by Vata Shamana treatment. Treatment principle explained for Pakshagata in classics are Snehana (internal and external oleation), Sweda, Sodhana preferably Virechana (purgation), Vasthi, Nasya, Moordhni Taila followed by Rasayana.^[8] The psychological issues have to be addressed with selected Satvavajaya protocol as per the condition, in the initial stages of the management, as per Susrutha.

Presenting complaints with history

A 61-year-old Muslim gentleman hailing from Andaman attended the Kayachikitsa OPD of our College Hospital, presenting with weakness of the left side of the body from the last 4 months. He was brought in a wheel chair on initial consultation.

The onset was acute, as 4 months ago he felt weakness of the left side of the body while awakening from bed in the morning. The patient was unconscious at that time and immediately taken to the nearest hospital. There was no vomiting or giddiness, but the face has deviated to the left side. He was admitted in ICU and remained unconscious for one day. The left side was paralysed and he was unable to walk and even cannot move the left upper and lower limbs. There was impairment in speech, altered memory along with the motor impairment. He was admitted to the hospital for one month and was on allopathic medications as well as physiotherapy. On discharge, memory impairment got relief, but motor functions and slurred speech persisted. There was no further improvement on him continuing the same for three months.

The patient was a known case of hypertension and dyslipidaemia for last 5 years and on irregular medication. He was a chronic smoker, non-alcoholic and had been consuming nonveg food items with an irregular food habit. He had poor appetite, reduced sleep, constipated irregular bowel which needed medication.

Clinical Examination

On examination of Vitals - pulse rate was 74/min, regular and of full volume, Heart rate was 74/min with normal S1 and S2, Blood Pressure was 130/100 mm Hg (right arm sitting), Respiration rate was recorded as 18/min and body weight was 75 Kg.

On neurological examination, he was conscious, oriented and responded well. All higher mental functions were intact except slurring of speech. On cranial nerve examinations, squint was present. Test for trigeminal nerve such as clenching of teeth, the opening of the mouth, opening of the jaw against resistance, side to side movement were impaired. On facial nerve examination, the angle of the mouth had deviated, and nasolabial fold not marked well. On Vagus nerve examination left side of the soft palate arch was lowered. On spinal accessory nerve examination left side sternomastoid muscle had a weakness, on shrugging of shoulder left side (trapezius muscle) had a weakness. On examining the hypoglossal nerve, tongue is lateralized toward the left side on protrusion and reduced strength on the left side. All other cranial nerve functions were intact.

On motor system examination, motor weakness with grade III in left upper and lower limbs was found and was hypotonic while the right side was normal. Deep tendon reflexes were exaggerated with grade III in the

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left upper and lower limbs. Finger nose test, knee heel test and Romberg's couldn't be elicited. No loss of sensation, touch, temperature, and pressure were noticed.

Diagnosis, assessment and treatment

CT of Brain revealed that subacute non-haemorrhagic infarct involving the right fronto-parieto-temporal regions and the ganglia capsular region causing effacement of the ipsilateral ventricle with a midline shift of 4.8 mm to the left. Angiogram neck and intracranial vessels show that focal area of narrowing noted in the supraglenoid segment of the right internal carotid artery just before the bifurcation of Middle Cerebral Artery.

Table 1: Assessment of motor function with MotorAssessment Scale for Stroke

Motor functions	вт	AT
Supine to side lying	1	3
Supine to sitting over side of bed	0	4
Balanced sitting	1	4
Sitting to standing	0	2
Walking	0	3
Upper arm function	0	0
Hand movement	0	0
Advanced hand activities	0	0

Table 2: Adopted procedures and medicines.

Procedures	Medicines	Duration	Rationale
Dhanyamla Dhara	Dhanyamla	3 days	Pachana and Rookshana
Udwarthana	Kola Kulathadi Churna ^[9]	5 days	Rookshana
Vasthi	Vaitarana Vasthi ^[10]	2 day	Pachana, Vata

			Anulomana
Churna Pinda Sweda	Kolakulathadi Churna	7 days	Swedana
Virechana	Gandarva Eranda Tailam ^[11]	1 day	Sodhana
Patra Potala Sweda	Vathahara Patra	7 days	Snehana and Swedana
Shastika Pinda Sweda	Shashtika, Bala, Ksheera	7 days	Brimhana, Vathahara
Nasyam	Karapasasthiadi Tailam ^[12]	7 days	Sira Sodhana, Vathahara

DISCUSSION

Pakshaghata is explained in detail with its Dosha subtypes by almost all the Ayurvedic scholars with its prognosis as well as detailed management. It is a Vatavyadhi of Nanatmaja variety according to Charaka and Mahavatavyadhi as per Susruta. Vata Dosha gets vitiated due to the indulgence of various diet and regimen and alters the function of peculiar srotases in the body, resulting in the dysfunction of one half of the body. There may be speech defect and altered sensory as well as motor functions as well. Other clinical conditions such as hypertension or dyslipidemia also contribute may to such manifestation.

Initially the Ama stage has to be get rid of followed by the management mentioned for Vata Vyadhi. The management varies as per the associative Dosha involved. Sneha and Sweda followed by Virechana is advised as the specific management. Acharya Susrutha explains the importance of Moordhni Taila such as Sirovasthi, Siropichu etc. in the management. Nasya Karma is having significant role in the management of conditions affecting Vata Kopa in Siras such as Pakshagatha.

Initially, the condition was considered as *Vatika* in nature with association of *Kapha*. In such condition, *Vata Kaphahara* drugs are ideal to be used.

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Ashtavarga Kwatha,^[13] Vyoshadi Guggulu,^[14] Varanadi Kwatha tablets^[15] were administered. For correcting the derangement of Apana, Hingutriguna Lehya was administered at bed time.^[16] Other medicines in use were Pippalyasava,^[17] Abhyarishta^[18] and Ekangaveera Rasa. For improving speech, Kalyanavaleha Churna was applied mixed with honey on the tongue.

In the next stage of treatment, the patient was prepared for *Sodhana* therapy. The *Lakshanas* of *Saama Vata*^[19] such as *Vibandha, Agnisaada* and *Aantrakujana* were present and based on these observation, *Rookshana* procedure *Dhanyamladhara* was done for 3 days followed by *Udwartanam* with *Kola Kuluthadi Choornam* for 5 days. After the initial *Rookshana* and *Pachana*, the patient felt lightness of the body, fatigue came down and appetite was increased.

As the patient complained of abdominal distension, diffuse pain and heaviness of the thighs, *Vasthi* was planned with consideration of localized *Vata Kopa* in the *Pakwasaya* and *Vaitaranavasthi* was done for 2 days adding *Brihat Saindavadi Taila*. After the *Aama* got subsided, *Choorna Pinda Sweda* for 7 days were administered after applying *Karpasasthyadi Taila*. Consequently, *Virechana* was performed with 40 ml of *Gandarva Eranda* at 8 am, on the next day.

Three day's rest was given, and the patient was maintained on *Pathyahara* (a strict diet of rice gruel, green gram soup, cooked vegetables, especially fibrerich ones, with minimal oil, spice, and salt). This was followed by *Patrapotala Sweda* for 7 days as *Samana Chikitsa*. For *Sodhana* of *Siras* and aiming for the facial paralysis, *Nasya* was done with *Karpasasthyadi Taila* of dose 2 ml, each nostril for 7 days. *Shastika Panda Sweda* for 7 days was done subsequently for *Brimhana* and hence *Vathahara* action.

After one-month treatment, there was relief from major symptoms. Initially, the patient was on a wheel chair, unable to sit or stand even with support. But after treatment, there was overall improvement in functions. The patient was able to sit from lying position, stand without support and able to walk with minimal support.

On assessing motor assessment scale for stroke, the major motor functions such as supine to sitting over side of the bed, balanced sitting, sitting to standing and walking are the main domains which maximum improvement was attained. But upper arm functions, hand movements, advanced hand movements like fine motor functions couldn't get considerable improvement.

CONCLUSION

The positive response in the present case was promising and worth detailing. The timely approach, with Ayurvedic concepts are effective in the management of Pakshagatha at the clinical level as observed from several cases. The associative conditions such as diabetes, hypertension, dyslipidemia have to be addressed effectively, on time. The protocol including Rookshana, Snehana, Sweda, Virechana, Vasthi, Nasya followed by Rasayana is beneficial for the affected. Techniques such as psychotherapy, yoga, physiotherapy etc. are capable of enhancing the results. Further studies are the need of the hour so as to promote the results and also the capability of health science such as Ayurveda in managing such clinical conditions.

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How to cite this article: Dr. Jithesh M, Dr. Muhammed Faisal. Ayurvedic mangement of Stroke - A Case Report. J Ayurveda Integr Med Sci 2019;5:348-352.

Source of Support: Nil, Conflict of Interest: None declared.

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